In the claims:

1. **(original):** An electroluminescent device comprising an anode, a cathode and one or a plurality of organic compound layers sandwiched therebetween, in which said organic compound layers comprise an organic compound containing one ore more pyrimidine moieties.

2. **(cancelled).**

3. **(currently amended):** An electroluminescent device according to claim 18, ~~2,~~ comprising a pyrimidine compound of formula



(III), wherein



Y is $R^1$, if X is      , or X is $R^1$, if Y is      ,
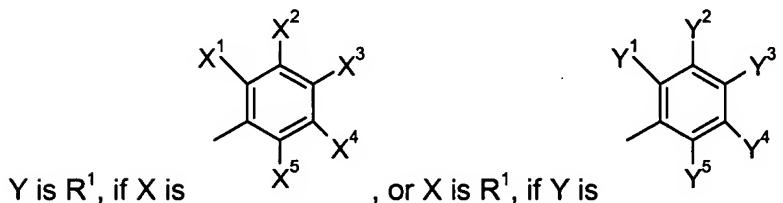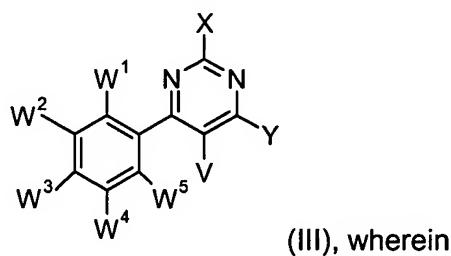
$R^1$ is H, $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl, $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; or -$NR^5R^6$; ~~wherein $W^1$ to $W^5$, $X^1$ to $X^5$, $Y^1$ to $Y^5$, E, D, $R^5$ and $R^6$ are as defined in claim 2;~~ and V is H.

EL/2-22773/A/PCT

**4.** **(currently amended):** An electroluminescent device according to claim ~~18, 2,~~ comprising a pyrimidine compound of formula



(IV),
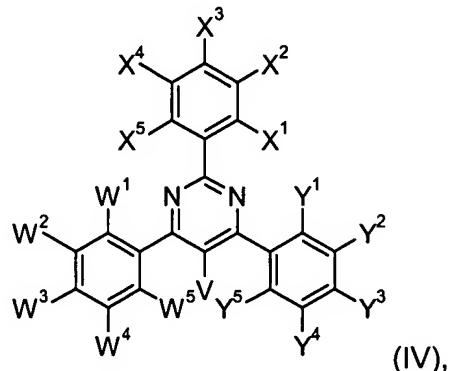
wherein

~~V, W¹ to W⁵, X¹ to X⁵ and Y¹ to Y⁵ are as defined in claim 2, especially W³, X³ and Y³ are selected from the group consisting of C₆-C₂₄aryl; C₆-C₂₄aryl which is substituted by G; C₂-C₂₄heteroaryl; C₂-C₂₄heteroaryl which is substituted by L, C₁-C₁₈alkoxy, -SR⁵; -NR⁵R⁶, wherein G, L, R⁵ and R⁶ are as defined in claim 2,~~

V is H, and W¹ and W⁵, Y¹ and Y⁵ as well as X¹ and X⁵ are independently of each other H; C₁-C₁₈alkyl; or C₁-C₁₈alkyl which is substituted by E and/or interrupted by D ~~., wherein E and D are as defined in claim 2.~~

**5.** **(currently amended):** An electroluminescent device according to claim ~~18, 2,~~ wherein V is a

group of the formula  , H, C₁-C₁₈alkyl; C₁-C₁₈alkyl which is substituted by E and/or interrupted by D; C₂-C₁₈alkenyl, C₂-C₁₈alkenyl which is substituted by E and/or interrupted by D; C₂-C₁₈alkynyl; C₂-C₁₈alkynyl which is substituted by E and/or interrupted by D; C₁-C₁₈alkoxy; C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D; -SR⁵; or -NR⁵R⁶; and
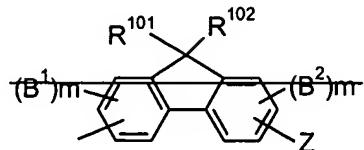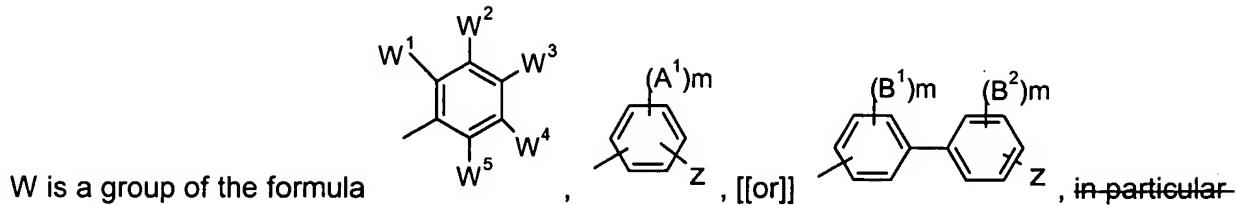
W is a group of the formula



, 



, [[or]]



, ~~in particular~~



~~r_~~H, $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl, $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; or -$NR^5R^6$; ~~wherein $W^1$ to $W^5$, D, $V^1$ to $V^5$, E, $A^1$, $B^1$, $B^2$, $R^5$, $R^6$, m and Z are as defined in claim 2~~ and $R^{101}$ and $R^{102}$ are independently of each other H, $C_1$-$C_8$alkyl, $C_6$-$C_{24}$aryl, or $C_5$-$C_7$cycloalkyl.~~, in particular H or $C_1$-$C_4$alkyl.~~

6.    (currently amended): An electroluminescent device according to claim 17, ~~2,~~ comprising a pyrimidine compound of formula



(VI) or



(VII),

wherein

Ar is a group of formula



, or



, ~~especially~~



~~, or~~



;

$W^{11}$ to $W^{15}$, $W^{21}$ to $W^{25}$, $W^{31}$ to $W^{35}$, $W^{41}$ to $W^{45}$, $Y^{11}$ to $Y^{15}$, $Y^{21}$ to $Y^{25}$, $Y^{31}$ to $Y^{35}$ and $Y^{41}$ to $Y^{45}$ are independently of each other H; $C_6$-$C_{24}$aryl; $C_6$-$C_{24}$aryl which is substituted by G; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; -$NR^5R^6$; $C_2$-$C_{24}$heteroaryl; $C_2$-$C_{24}$heteroaryl which is substituted by L; -$SOR^4$; -$SO_2R^4$; -$COR^8$; -$COOR^7$; -$CONR^5R^6$; $C_4$-$C_{18}$cycloalkyl; $C_4$-$C_{18}$cycloalkyl which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkenyl; $C_4$-$C_{18}$cycloalkenyl which is substituted by E and/or interrupted by D;

V is H; $C_6$-$C_{24}$aryl; $C_6$-$C_{24}$aryl which is substituted by G; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; or -$NR^5R^6$; $C_2$-$C_{24}$heteroaryl; $C_2$-$C_{24}$heteroaryl which is substituted by L; -$SOR^4$; -$SO_2R^4$; -$COR^8$; -$COOR^7$; -$CONR^5R^6$; $C_4$-$C_{18}$cycloalkyl; $C_4$-$C_{18}$cycloalkyl which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkenyl; $C_4$-$C_{18}$cycloalkenyl which is substituted by E and/or interrupted by D;

$A^{18}$ and $A^{19}$ are independently of each other H, $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by E,

$B^{11}$ to $B^{14}$ and $B^{21}$ to $B^{24}$ are independently of each other H; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by G; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; -$NR^5R^6$; $C_2$-$C_{18}$heteroaryl; $C_2$-$C_{18}$heteroaryl which is substituted by L; -$SOR^4$; -$SO_2R^4$; -$COR^8$; -$COOR^7$; or -$CONR^5R^6$; $C_4$-$C_{18}$cycloalkyl; $C_4$-$C_{18}$cycloalkyl which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkenyl; $C_4$-$C_{18}$cycloalkenyl which is substituted by E and/or interrupted by D.; especially H; wherein D, E, G, L, $R^4$, $R^5$, $R^6$, $R^7$ and $R^8$ are as defined in claim 2.

G is E; K; heteroaryl; heteroaryl which is substituted by $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by E and/or K;

K is $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkyl; $C_4$-$C_{18}$cycloalkyl which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkenyl; or $C_4$-$C_{18}$cycloalkenyl which is substituted by E and/or interrupted by D;

L is E; K; $C_6$-$C_{18}$aryl; or $C_6$-$C_{18}$aryl which is substituted by G, E and/or K;

$R^4$ is $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkyl; or $C_1$-$C_{18}$alkyl which is interrupted by –O–;

$R^7$ is H; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is interrupted by –O–;

$R^8$ is H; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is interrupted by –O–; or two substituents selected from $V^1$ to $V^5$, $W^1$ to $W^5$, $X^1$ to $X^5$, $Y^1$ to $Y^5$ which are in neighborhood to each other form a five to seven membered ring.

**7.     (currently amended):** An electroluminescent device according to claim_17, -2,-wherein the pyrimidine compound has the following formula



(Xa), or (Xb)
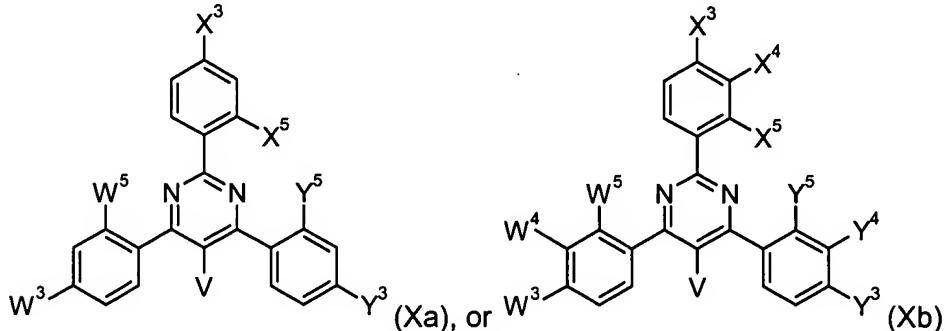
wherein

V is H, or $C_1$-$C_8$-alkyl,

$X^3$ and $X^4$ are independently of each other H, $C_1$-$C_8$alkyl, $C_1$-$C_8$alkoxy, $C_1$-$C_8$thioalkyl, or phenyl,

$X^5$ is H, or $C_1$-$C_8$alkoxy,

$W^5$ is H, $C_1$-$C_8$alkyl, or $O(CH_2)_{n1}$-X,

$Y^5$ is H, $C_1$-$C_8$alkyl, or $O(CH_2)_{n1}$-X,

$Y^3$, $Y^4$, $W^3$ and $W^4$ are independently of each other $C_1$-$C_8$alkyl, $C_1$-$C_8$alkoxy, $C_1$-$C_8$thioalkyl, halogen, in particular Br, phenyl, or $O(CH_2)_{n1}$-X, wherein n1 is an integer of 1 to 5 and X is –O-$(CH_2)_{m1}CH_3$, –OC(O)-$(CH_2)_{m1}CH_3$, -C(O)-O-$C_1$-$C_8$alkyl, -$NR^{103}R^{104}$, wherein m1 is an integer of 0 to 5 and $R^{103}$ and $R^{104}$ are independently of each other H, or $C_1$-$C_8$-alkyl, or $R^{103}$ and $R^{104}$

together form a five or six membered heterocyclic ring;_-in-particular-



or the following formula



(XI),
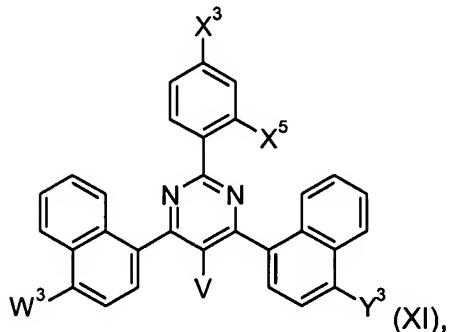
wherein

V is H, or $C_1$-$C_8$alkyl,

$W^3$ is H, $C_1$-$C_8$alkyl, or $C_1$-$C_8$alkoxy,

$X^3$ is H, $C_1$-$C_8$alkoxy, phenyl or $O(CH_2)_{n1}$-X,

$X^5$ is H, $C_1$-$C_8$alkoxy, phenyl or $O(CH_2)_{n1}$-X,

$Y^3$ is H, $C_1$-$C_8$alkyl, or $C_1$-$C_8$alkoxy, wherein n1 is an integer of 1 to 4 and X is $-O-(CH_2)_{m1}CH_3$, $-OC(O)-(CH_2)_{m1}CH_3$, $-C(O)-O-C_1$-$C_8$alkyl, wherein m1 is an integer of 0 to 5;

or the following formula



(XIIa),

or



(XIIb),
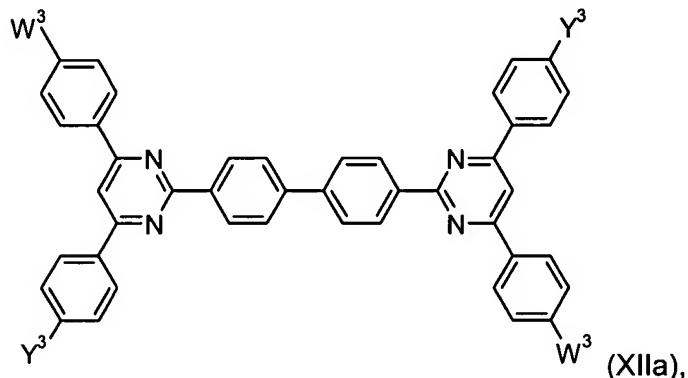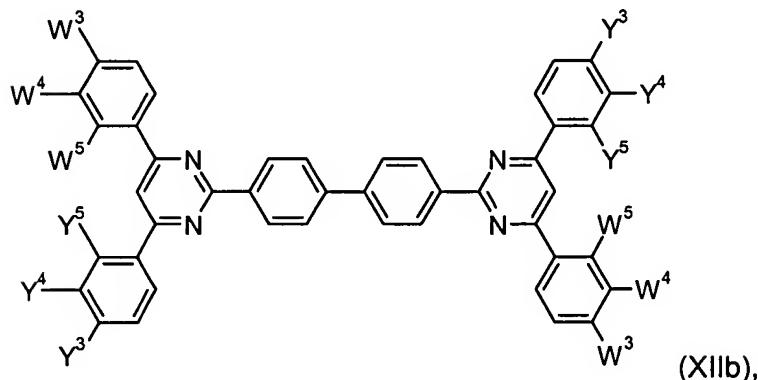
wherein

$W^3$ and $W^4$ are independently of each other H, $-NR^{103}R^{104}$, $C_1$-$C_8$thioalkyl, or $C_1$-$C_8$alkoxy,

$Y^3$ and $Y^4$ are independently of each other H, $-NR^{103}R^{104}$, $C_1$-$C_8$thioalkyl, or $C_1$-$C_8$alkoxy, wherein $R^{103}$ and $R^{104}$ are independently of each other H, or $C_1$-$C_8$alkyl.

$W^5$ is H, $C_1$-$C_8$alkyl, or $O(CH_2)_{n1}$-X,

$Y^5$ is H, $C_1$-$C_8$alkyl, or $O(CH_2)_{n1}$-X,

wherein n1 is an integer of 1 to 5 and X is $-O-(CH_2)_{m1}CH_3$, $-OC(O)-(CH_2)_{m1}CH_3$, $-C(O)-O-C_1$-$C_8$alkyl, $-NR^{103}R^{104}$, wherein m1 is an integer of 0 to 5 and $R^{103}$ and $R^{104}$ are independently of

each other H, or $C_1$-$C_8$-alkyl, or $R^{103}$ and $R^{104}$ together form a five or six membered heterocyclic

ring;, in particular

-or the following formula



(XV),
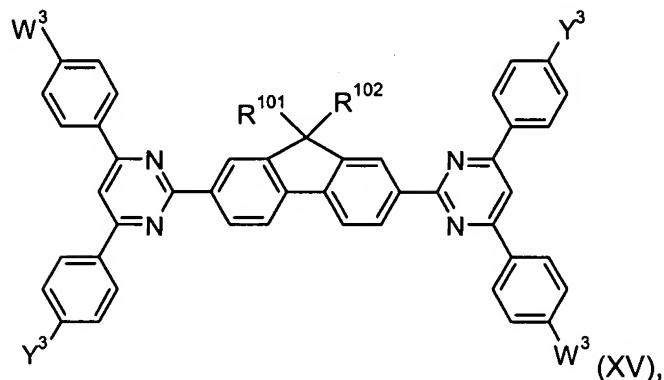
wherein

$W^3$ is H, -$NR^{103}R^{104}$, $C_1$-$C_8$thioalkyl, or $C_1$-$C_8$alkoxy,

$Y^3$ is H, -$NR^{103}R^{104}$, $C_1$-$C_8$thioalkyl, or $C_1$-$C_8$alkoxy, wherein $R^{103}$ and $R^{104}$ are independently of each other H, or $C_1$-$C_8$alkyl,

$R^{101}$ and $R^{102}$ are independently of each other H, $C_1$-$C_8$alkyl, phenyl, or $C_5$-$C_7$cycloalkyl, in particular cyclohexyl;

or the following formula
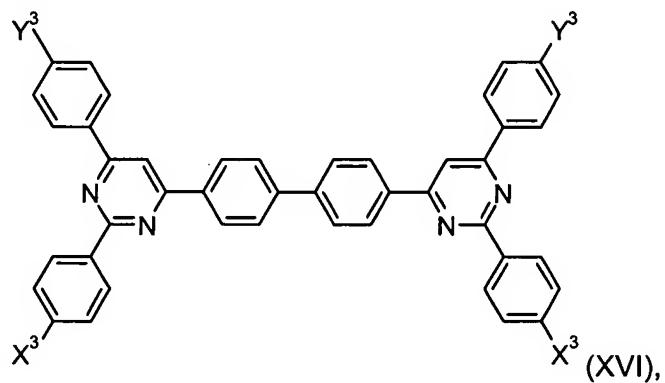


(XVI),

wherein

$Y^3$ is H, -$NR^{103}R^{104}$, $C_1$-$C_8$thioalkyl, or $C_1$-$C_8$alkoxy,

$X^3$ is H, -$NR^{103}R^{104}$, $C_1$-$C_8$thioalkyl, or $C_1$-$C_8$alkoxy, wherein $R^{103}$ and $R^{104}$ are independently of each other H, or $C_1$-$C_8$alkyl;

or the following formula
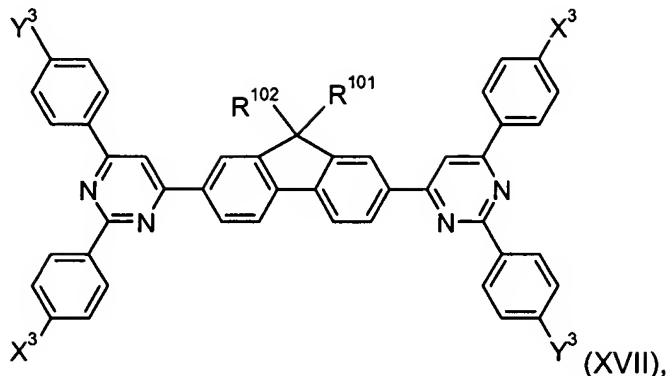


wherein

$Y^3$ is H, -NR$^{103}$R$^{104}$, C$_1$-C$_8$thioalkyl, or C$_1$-C$_8$alkoxy,

$X^3$ is H, -NR$^{103}$R$^{104}$, C$_1$-C$_8$thioalkyl, or C$_1$-C$_8$alkoxy, wherein R$^{103}$ and R$^{104}$ are independently of each other H, or C$_1$-C$_8$alkyl, and R$^{101}$ and R$^{102}$ are independently of each other H, C$_1$-C$_8$alkyl, phenyl, or C$_5$-C$_7$cycloalkyl.~, in particular cyclohexyl.

8.    **(currently amended)**: An electroluminescent device according to claim 17, -2, wherein W and Y are groups of the formula
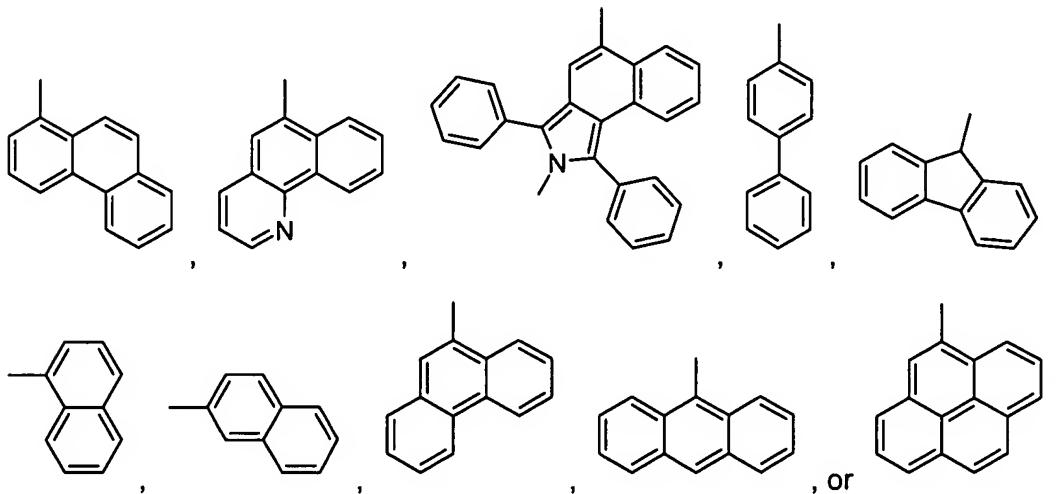
**9.** **(currently amended):** An electroluminescent device according to claim 18, ~~2,~~ comprising a pyrimidine compound of formula
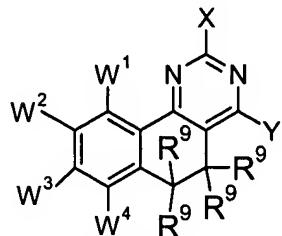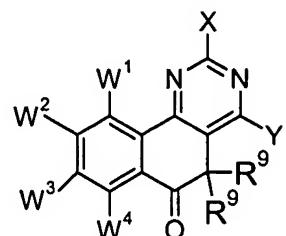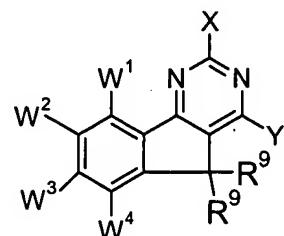


(XIVa), (XIVb), (XIVc),
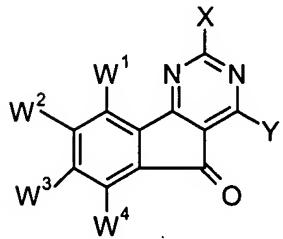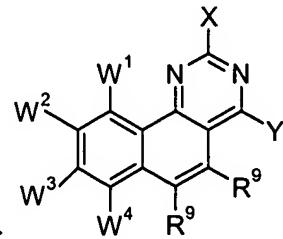


(XIVd), or (XIVe)~~, wherein X, Y, W¹ to W⁴, and R⁹ are as defined in claim 2.~~

**10.** **(currently amended):** An electroluminescent device according to claim 17, ~~2,~~ comprising a pyrimidine compound of formula I, wherein V is hydrogen,
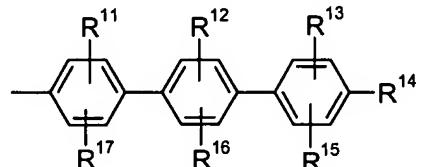
W and Y are independently of each other a group of formula



,



or , and

X is a group of formula



,



, or



,
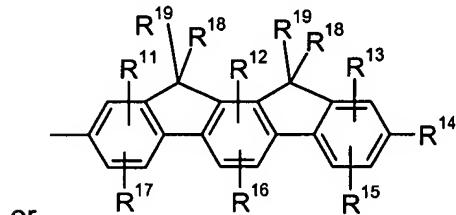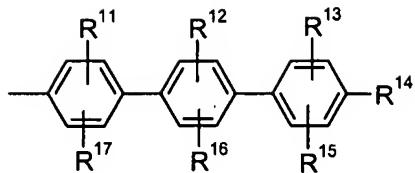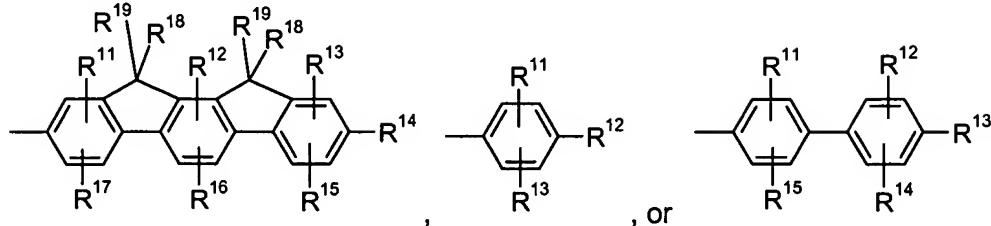
wherein

$R^{11}$, $R^{12}$, $R^{13}$, $R^{14}$, $R^{15}$, $R^{16}$ and $R^{17}$ are independently of each other H, $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by E; E, $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by E;

$R^{18}$ and $R^{19}$ are independently of each other H, $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by E;

D is -CO-; -COO-; -OCOO-; -S-; -SO-; -SO$_2$-; -O-; -NR$^5$-; -SiR$^5$R$^6$-; -POR$^5$-; -CR$^5$=CR$^6$-;or -C≡C-;

E is -OR$^5$; -SR$^5$; -NR$^5$R$^6$; -COR$^8$; -COOR$^7$; -CONR$^5$R$^6$; -CN; -OCOOR$^7$; or halogen; wherein R$^5$, R$^6$, R$^7$ and R$^8$ are as defined in claim 2.

R$^7$ is H; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is interrupted by –O-;

R$^8$ is H; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is interrupted by –O-; or two substituents selected from V$^1$ to V$^5$, W$^1$ to W$^5$, X$^1$ to X$^5$, Y$^1$ to Y$^5$ which are in neighborhood to each other form a five to seven membered ring.

**11.** **(currently amended):** An electroluminescent device according to claim 17, 2, comprising a pyrimidine compound of formula

 (XIa), wherein W$^3$ and Y$^3$ are a group of formula



,
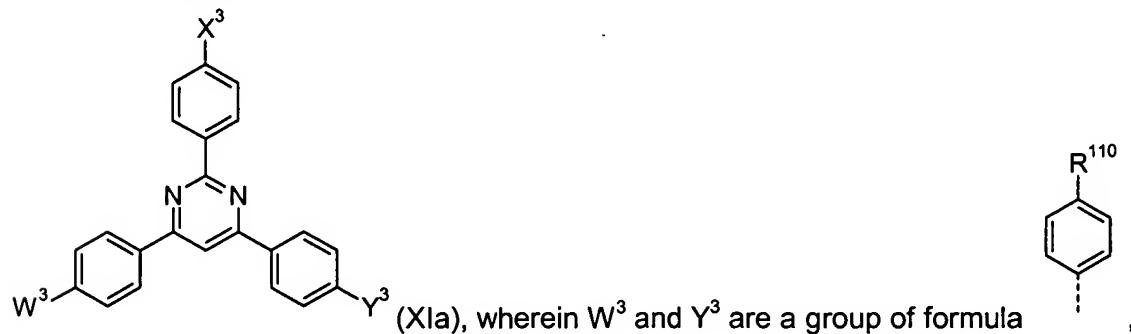
wherein

$R^{110}$ is $C_6$-$C_{10}$-aryl, $C_6$-$C_{10}$-aryl which is substituted by $C_1$-$C_6$-alkyl, $C_1$-$C_4$-alkoxy

especially



-or $C_4$-$C_{10}$ heteroaryl,

especially



, and



$X^3$ is H, $C_1$-$C_6$-alkyl, $C_1$-$C_4$-alkoxy, Ph, or
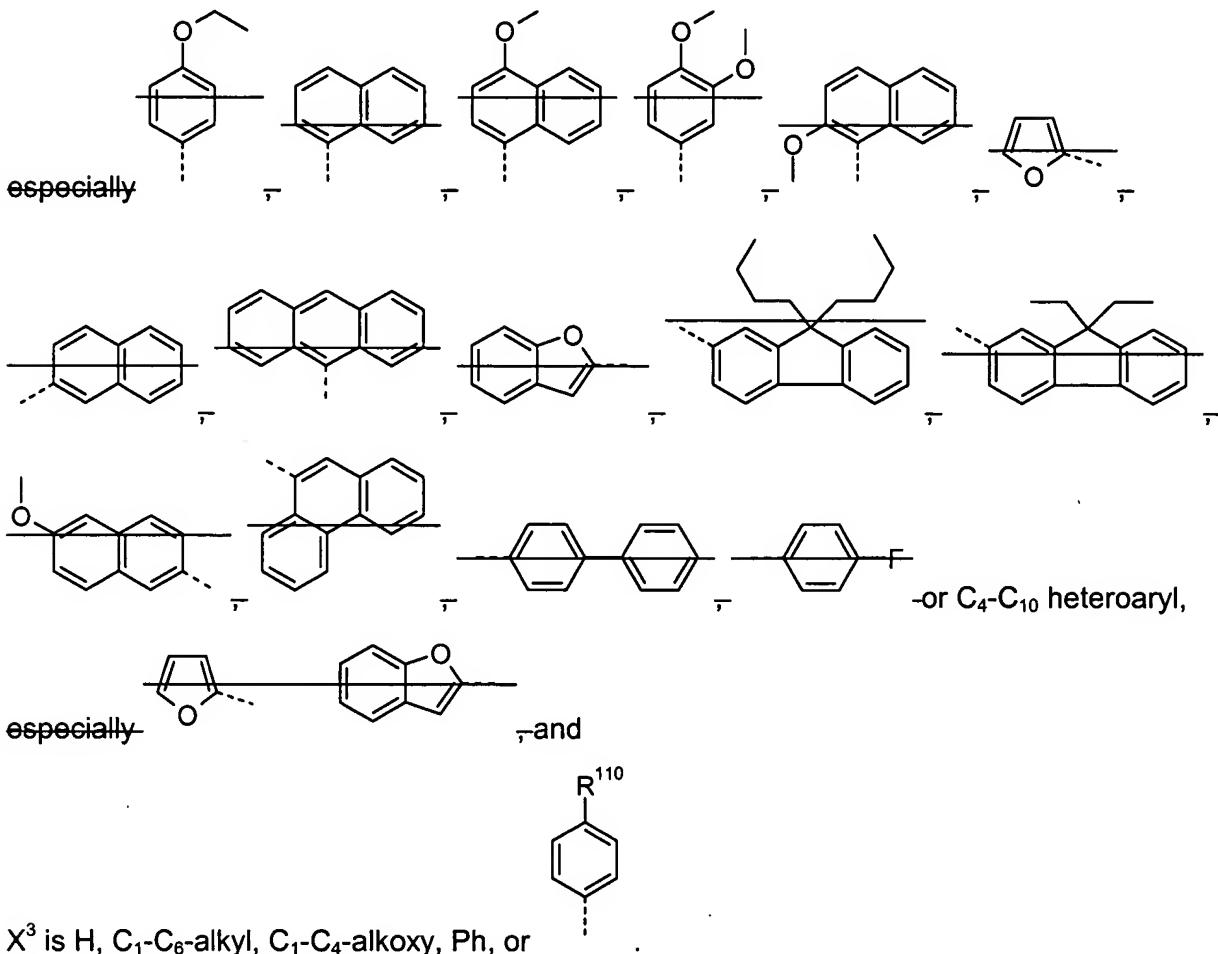
12. **(currently amended):** A pyrimidine compound according to claim 17 of formula



(IV),

wherein



W is

, X is

and Y is

: [[,]]
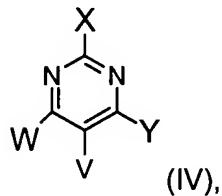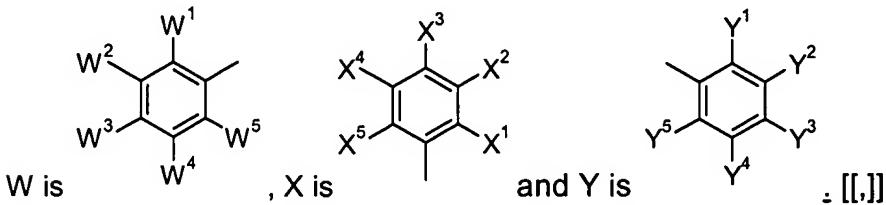
V, W¹ to W⁵, X¹ to X⁵ and Y¹ to Y⁵ are as defined in claim 2.

**13. (currently amended):** A pyrimidine compound <u>according to claim 17</u> of formula



(VI) or



(VII),

wherein Ar is a group of formula



, or



, ~~especially~~



~~, or~~



,

$W^{11}$ to $W^{15}$, $W^{21}$ to $W^{25}$, $W^{31}$ to $W^{35}$, $W^{41}$ to $W^{45}$, $Y^{11}$ to $Y^{15}$, $Y^{21}$ to $Y^{25}$, $Y^{31}$ to $Y^{35}$ and $Y^{41}$ to $Y^{45}$ are independently of each other H; $C_6$-$C_{24}$aryl; $C_6$-$C_{24}$aryl which is substituted by G; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E

and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; -$NR^5R^6$; $C_2$-$C_{24}$heteroaryl; $C_2$-$C_{24}$heteroaryl which is substituted by L; -$SOR^4$; -$SO_2R^4$; -$COR^8$; -$COOR^7$; -$CONR^5R^6$; $C_4$-$C_{18}$cycloalkyl; $C_4$-$C_{18}$cycloalkyl which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkenyl; $C_4$-$C_{18}$cycloalkenyl which is substituted by E and/or interrupted by D;

V is H; $C_6$-$C_{24}$aryl; $C_6$-$C_{24}$aryl which is substituted by G; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; or -$NR^5R^6$; $C_2$-$C_{24}$heteroaryl; $C_2$-$C_{24}$heteroaryl which is substituted by L; -$SOR^4$; -$SO_2R^4$; -$COR^8$; -$COOR^7$; -$CONR^5R^6$; $C_4$-$C_{18}$cycloalkyl; $C_4$-$C_{18}$cycloalkyl which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkenyl; $C_4$-$C_{18}$cycloalkenyl which is substituted by E and/or interrupted by D;

$A^{18}$ and $A^{19}$ are independently of each other H, $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by E,

$B^{11}$ to $B^{14}$ and $B^{21}$ to $B^{24}$ are independently of each other H; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by G; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; -$NR^5R^6$; $C_2$-$C_{18}$heteroaryl; $C_2$-$C_{18}$heteroaryl which is substituted by L; -$SOR^4$; -$SO_2R^4$; -$COR^8$; -$COOR^7$; or -$CONR^5R^6$; $C_4$-$C_{18}$cycloalkyl; $C_4$-$C_{18}$cycloalkyl which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkenyl; $C_4$-$C_{18}$cycloalkenyl which is substituted by E and/or interrupted by D; ~~wherein D, E, G, L, $R^4$, $R^5$, $R^6$, $R^7$ and $R^8$ are as defined in claim 2.~~

G is E; K; heteroaryl; heteroaryl which is substituted by $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by E and/or K;

K is $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E

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and/or interrupted by D; C$_1$-C$_{18}$alkoxy, C$_1$-C$_{18}$alkoxy which is substituted by E and/or interrupted by D; C$_4$-C$_{18}$cycloalkyl; C$_4$-C$_{18}$cycloalkyl which is substituted by E and/or interrupted by D; C$_4$-C$_{18}$cycloalkenyl; or C$_4$-C$_{18}$cycloalkenyl which is substituted by E and/or interrupted by D;

L is E; K;C$_6$-C$_{18}$aryl; or C$_6$-C$_{18}$aryl which is substituted by G, E and/or K;

R$^4$ is C$_6$-C$_{18}$aryl; C$_6$-C$_{18}$aryl which is substituted by C$_1$-C$_{18}$alkyl, C$_1$-C$_{18}$alkoxy; C$_1$-C$_{18}$alkyl; or C$_1$-C$_{18}$alkyl which is interrupted by –O–;

R$^7$ is H; C$_6$-C$_{18}$aryl; C$_6$-C$_{18}$aryl which is substituted by C$_1$-C$_{18}$alkyl, C$_1$-C$_{18}$alkoxy; C$_1$-C$_{18}$alkyl; C$_1$-C$_{18}$alkyl which is interrupted by –O–;

R$^8$ is H; C$_6$-C$_{18}$aryl; C$_6$-C$_{18}$aryl which is substituted by C$_1$-C$_{18}$alkyl, C$_1$-C$_{18}$alkoxy; C$_1$-C$_{18}$alkyl; C$_1$-C$_{18}$alkyl which is interrupted by –O–; or two substituents selected from V$^1$ to V$^5$, W$^1$ to W$^5$, X$^1$ to X$^5$, Y$^1$ to Y$^5$ which are in neighborhood to each other form a five to seven membered ring.

14.    (currently amended): A pyrimidine compound of formula I according to claim 12, wherein
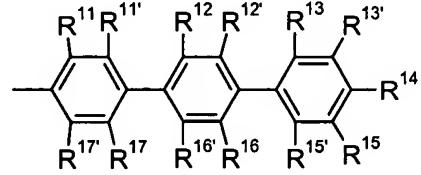
at least one of the groups W, X and Y is a group of formula 



,

and the other groups are independently of each other an aryl group or a heteroaryl group,
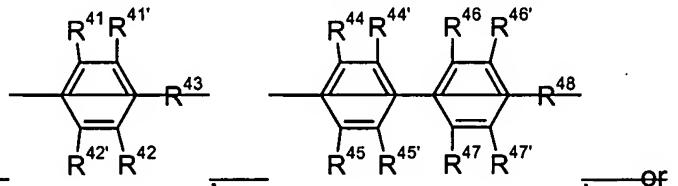
especially   a   group   of   formula  



,   



,   or



,
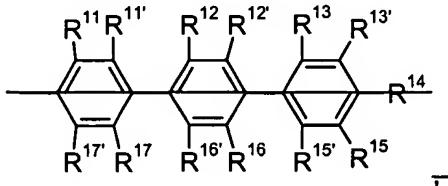
wherein

R$^{11}$, R$^{11'}$, R$^{12}$, R$^{12'}$, R$^{13}$, R$^{13'}$, R$^{15}$, R$^{15'}$, R$^{16}$, R$^{16'}$, R$^{17}$[[,]] and R$^{17'}$, ~~R$^{44}$, R$^{44'}$, R$^{42}$, R$^{42'}$, R$^{44}$, R$^{44'}$, R$^{45}$, R$^{45'}$, R$^{46}$, R$^{46'}$, R$^{47}$ and R$^{47'}$~~ are independently of each other H, E, C$_6$-C$_{18}$aryl; C$_6$-C$_{18}$aryl which is

substituted by E; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$aralkyl; or $C_7$-$C_{18}$aralkyl which is substituted by E; or

$R^{11'}$ and $R^{12}$, $R^{12'}$ and $R^{13}$, $R^{15'}$ and $R^{16}$, <u>and</u> $R^{16'}$ and $R^{17}$, ~~$R^{44'}$ and $R^{46}$ and/or $R^{45'}$ and $R^{47}$~~ are each a divalent group $L^1$ selected from an oxygen atom, an sulfur atom, $>CR^{118}R^{119}$ $>SiR^{118}R^{119}$,

$$R^{49}\diagdown \diagup R^{50}$$
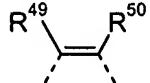
or    , wherein

$R^{118}$ and $R^{119}$ are independently of each other $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkoxy, $C_6$-$C_{18}$aryl; $C_7$-$C_{18}$aralkyl;

$R^{11}$ and $R^{11'}$, $R^{12}$ and $R^{12'}$, $R^{13}$ and $R^{13'}$, $R^{13'}$ and $R^{14}$, $R^{14}$ and $R^{15}$, $R^{15}$ and $R^{15'}$, $R^{16}$ and $R^{16'}$, <u>and</u> $R^{17'}$ and $R^{17}$,~~$R^{44}$ and $R^{44'}$,~~ ~~$R^{42}$ and $R^{42'}$,~~ ~~$R^{42'}$ and $R^{43}$,~~ ~~$R^{44'}$ and $R^{43}$,~~ ~~$R^{44}$ and $R^{44'}$,~~ ~~$R^{45}$ and $R^{45'}$,~~ ~~$R^{46}$ and $R^{46'}$,~~ ~~$R^{47}$ and $R^{47'}$,~~ ~~$R^{46'}$ and $R^{48}$ and/or $R^{47'}$ and $R^{48}$~~ are each a divalent group
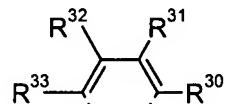
$$R^{32}\diagup R^{31}$$
$$R^{33}\diagdown \diagup R^{30}$$

, wherein

$R^{30}$, $R^{31}$, $R^{32}$, $R^{33}$, $R^{49}$ and $R^{50}$ are independently of each other H, $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl, which is substituted by E and/or interrupted by D; E; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl, which is substituted by E;

$R^{14}$ is H, $C_2$-$C_{30}$heteroaryl, $C_6$-$C_{30}$aryl, or $C_6$-$C_{30}$aryl which is substituted by E, $C_1$-$C_{18}$alkyl; or $C_1$-
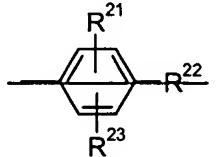
$$R^{21}$$
$$\diagup \diagdown -R^{22}$$
$$R^{23}$$

$C_{18}$alkyl which is substituted by E and/or interrupted by D; ~~especially~~                     ,

$$R^{21}\quad R^{22}$$
$$\diagup \diagdown \diagup \diagdown -R^{23}$$
$$R^{25}\quad R^{24}$$
~~, or~~
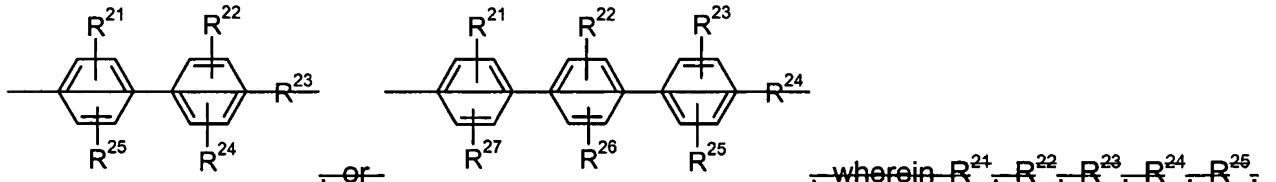
$$R^{21}\quad R^{22}\quad R^{23}$$
$$\diagup \diagdown \diagup \diagdown \diagup \diagdown -R^{24}$$
$$R^{27}\quad R^{26}\quad R^{25}$$
~~, wherein $R^{21}$, $R^{22}$, $R^{23}$, $R^{24}$, $R^{25}$,~~

~~$R^{26}$ and $R^{27}$ are independently of each other H, E, $C_4$-$C_{48}$alkyl; $C_4$-$C_{48}$alkyl which is substituted by E and/or interrupted by D; E; $C_7$-$C_{48}$aralkyl; $C_7$-$C_{48}$aralkyl which is substituted by E;~~

~~$R^{43}$ and $R^{48}$ are independently of each other H, E; $C_4$-$C_{48}$alkyl; $C_4$-$C_{48}$alkyl, which is substituted by E and/or interrupted by D; $C_2$-$C_{30}$heteroaryl; $C_7$-$C_{48}$aralkyl; $C_7$-$C_{48}$aralkyl which is substituted by E;~~

D is -CO-; -COO-; -OCOO-; -S-; -SO-; -SO$_2$-; -O-; -NR$^5$-; SiR$^5$R$^6$-; -POR$^5$-; -CR$^9$=CR$^{10}$-;or -C≡C-;

E is $-OR^5$; $-SR^5$; $-NR^5R^6$; $-COR^8$; $-COOR^7$; $-CONR^5R^6$; $-CN$; or halogen, especially F, or Cl; wherein $R^5$ and $R^6$ are independently of each other $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkyl; or $C_1$-$C_{18}$alkyl which is interrupted by $-O-$; or
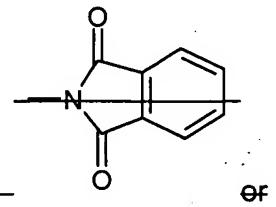


$R^5$ and $R^6$ together form a five or six membered ring, in-particular-      or


;
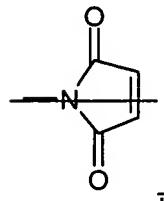
$R^7$ is $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkyl; or $C_1$-$C_{18}$alkyl which is interrupted by $-O-$;

$R^8$ is $C_7$-$C_{12}$alkylaryl; $C_1$-$C_{18}$alkyl; or $C_1$-$C_{18}$alkyl which is interrupted by $-O-$; and

$R^9$ and $R^{10}$ are independently of each other H, $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkyl; or $C_1$-$C_{18}$alkyl which is interrupted by $-O-$.

15. **(original):** A pyrimidine compound according to claim 14, wherein

V is hydrogen,

W and Y are a group of formula  ,

or  ,and

X is a group of formula  ,  ,

 , or  .
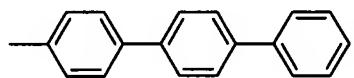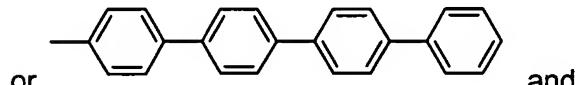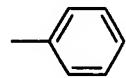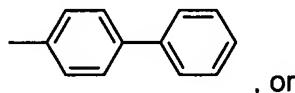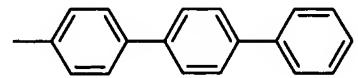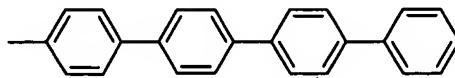
**16.    (currently amended):** A pyrimidine compound according to claim 11, ~~12~~ of formula



(XVIII), wherein $W^3$ and $Y^3$ are a group of formula



,
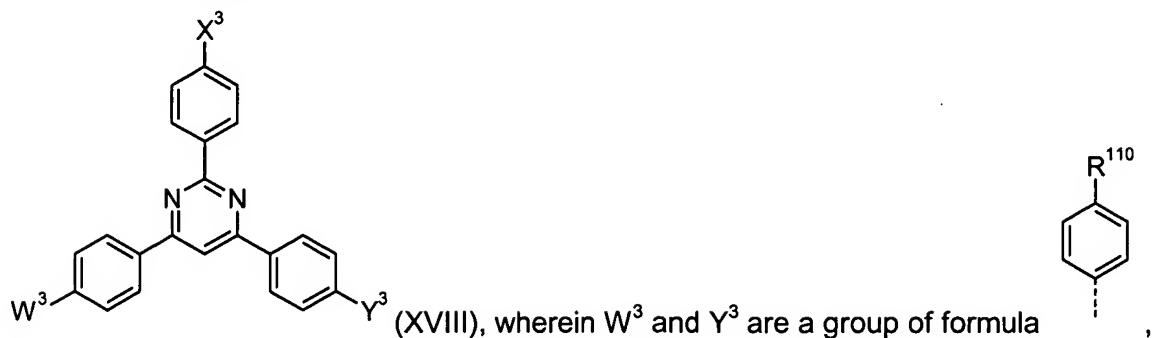
wherein

$R^{110}$ is $C_6$-$C_{10}$-aryl, ~~such as phenyl, 1-naphthyl, 2-naphthyl, 3- or 4-biphenyl, 9-phenanthryl, 2- or~~
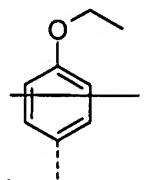


~~9-fluorenyl,~~ which is optionally substituted by $C_1$-$C_6$-alkyl, or $C_1$-$C_4$-alkoxy ~~especially~~





-or $C_4$-$C_{10}$ heteroaryl, ~~especially~~



and
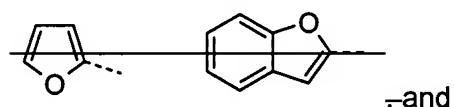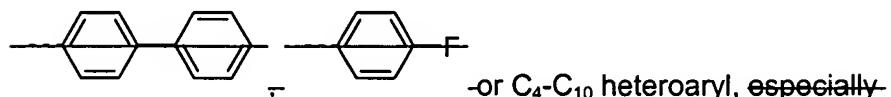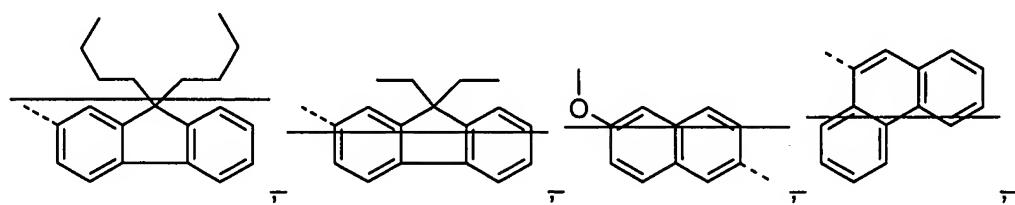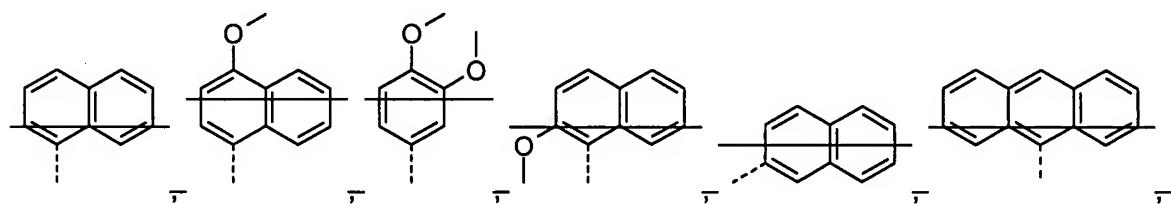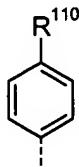


$X^3$ is H, $C_1$-$C_6$-alkyl, $C_1$-$C_4$-alkoxy, Ph, or

.

17.   **(new):** An electroluminescent device according to claim 1, wherein the organic compound is a pyrimidine compound of formula

$$\begin{array}{c} X \\ \text{N} \diagdown \diagup \text{N} \\ W \diagdown \diagup Y \\ V \end{array}$$

(I), wherein
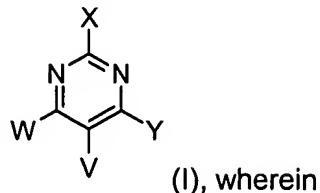
V, W, Y and X are independently of each other $C_6$-$C_{30}$aryl or $C_2$-$C_{30}$heteroaryl, which can be substituted or unsubstitutedH; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl, $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; -$NR^5R^6$;

wherein
D is -CO-; -COO-; -OCOO-; -S-; -SO-; -$SO_2$-; -O-; -$NR^5$-; -$SiR^5R^6$-; -$POR^5$-; -$CR^5$=$CR^6$-;or -C≡C-;
E is -$OR^5$; -$SR^5$; -$NR^5R^6$; -$COR^8$; -$COOR^7$; -$CONR^5R^6$; -CN; -$OCOOR^7$; or halogen;

$R^5$ and $R^6$ are independently of each other H; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkoxy; $C_1$-$C_{18}$alkyl; or $C_1$-$C_{18}$alkyl which is interrupted by –O-;
or
$R^5$ and $R^6$ together form a five or six membered ring,

with the proviso that at least one of the groups V, W, X and Y is a $C_6$-$C_{24}$aryl, or $C_2$-$C_{24}$heteroaryl group, which can be substituted.

18.   **(new):** An electroluminescent device according to claim 17, wherein when V is $C_6$-$C_{30}$aryl it is

$$\begin{array}{c} V^2 \\ V^1 \diagup \diagdown V^3 \\ \diagdown \diagup V^4 \\ V^5 \end{array}$$

,
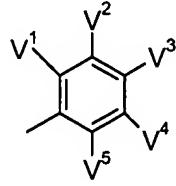
when W is $C_6$-$C_{30}$aryl it is



,
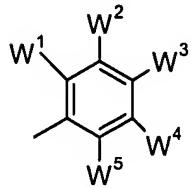
when Y is $C_6$-$C_{30}$aryl it is



,
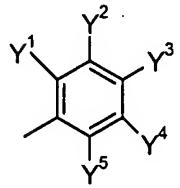
when X is $C_6$-$C_{30}$aryl it is



,
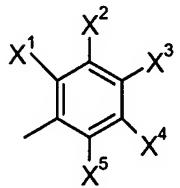
wherein the groups

$V^1$ to $V^5$, $W^1$ to $W^5$, $X^1$ to $X^5$ and $Y^1$ to $Y^5$ are independently of each other H; halogen, $C_6$-$C_{24}$aryl; $C_6$-$C_{24}$aryl which is substituted by G; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by



D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; wherein $Ar^1$ is $C_6$-$C_{30}$aryl or $C_2$-$C_{30}$heteroaryl, $Ar^2$ is $C_6$-$C_{30}$aryl or $C_2$-$C_{30}$heteroaryl, H, $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E and/or interrupted by D; -$SR^5$; -$NR^5R^6$; $C_2$-$C_{24}$heteroaryl; $C_2$-$C_{24}$heteroaryl which is substituted by L; -$SOR^4$; -$SO_2R^4$; -$COR^8$; -$COOR^7$; -$CONR^5R^6$; $C_4$-$C_{18}$cycloalkyl; $C_4$-$C_{18}$cycloalkyl which is substituted by E and/or interrupted by D; $C_4$-$C_{18}$cycloalkenyl; $C_4$-$C_{18}$cycloalkenyl which is substituted by E and/or interrupted by D; or

$W^5$ or $Y^5$ together with V form a group $-CR^9_2-$, $-CR^9_2-CR^9_2-$, $-C(=O)CR^9_2-$, $-C(=O)-$, or $-CR^9=CR^9-$, or

$W^5$ and $Y^5$ together with V form a group 

$$-CR^9=\overset{\displaystyle |}{\underset{\displaystyle H}{C}}- \quad , \quad -CR^9_2-\overset{\displaystyle |}{CR^9}-CR^9_2- \quad ,$$

$$-\overset{\displaystyle |}{\underset{\displaystyle H}{C}}- \quad , \text{ or } \quad -\overset{\displaystyle |}{CR^9}- \quad ,$$
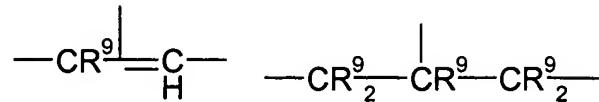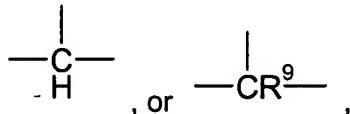
wherein $R^9$ is H; $C_1$-$C_{18}$alkyl, $C_1$-$C_{18}$alkyl which is interrupted by $-O-$, $C_6$-$C_{18}$aryl, $C_6$-$C_{18}$aryl which is substituted by $C_1$-$C_{18}$alkyl, or $C_1$-$C_{18}$alkoxy, or

one of the substituents V, W, X, or Y is a group of the formula $-Z$, $-Ar-Z$, wherein Ar is $C_6$-$C_{24}$aryl or $C_2$-$C_{24}$heteroaryl, which can be substituted, wherein Z is a group of formula
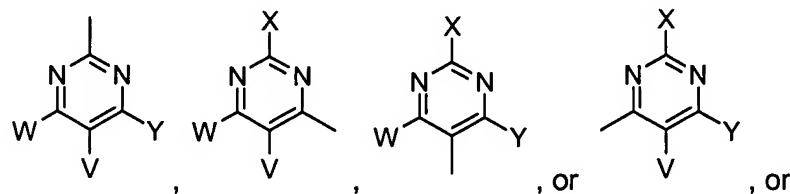


one of the substituents
$V^1$ to $V^5$, $W^1$ to $W^5$, $X^1$ to $X^5$, or $Y^1$ to $Y^5$ is a group of the formula $-Z'$, $-Ar-Z'$, wherein Ar is $C_6$-$C_{24}$aryl or $C_2$-$C_{24}$heteroaryl, which can be substituted, wherein Z' is a group of formula
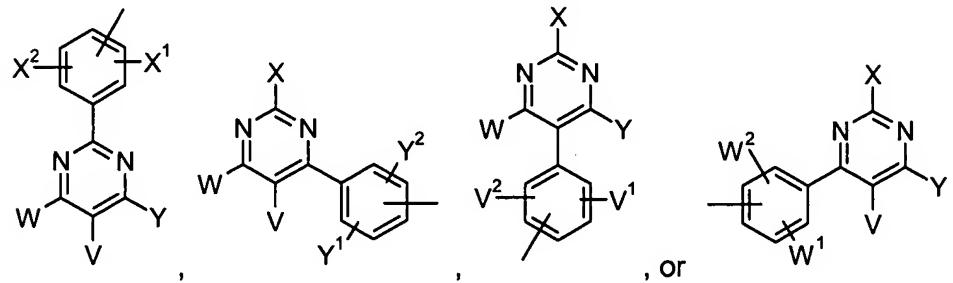


wherein
$A^1$, $B^1$ and $B^2$ are independently of each other H; $C_6$-$C_{18}$aryl; $C_6$-$C_{18}$aryl which is substituted by G; $C_1$-$C_{18}$alkyl; $C_1$-$C_{18}$alkyl which is substituted by E and/or interrupted by D; $C_7$-$C_{18}$alkylaryl; $C_7$-$C_{18}$alkylaryl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkenyl; $C_2$-$C_{18}$alkenyl which is substituted by E and/or interrupted by D; $C_2$-$C_{18}$alkynyl; $C_2$-$C_{18}$alkynyl which is substituted by E and/or interrupted by D; $C_1$-$C_{18}$alkoxy, $C_1$-$C_{18}$alkoxy which is substituted by E

and/or interrupted by D; -SR$^5$; -NR$^5$R$^6$; C$_2$-C$_{18}$heteroaryl; C$_2$-C$_{18}$heteroaryl which is substituted by L; -SOR$^4$; -SO$_2$R$^4$; -COR$^8$; -COOR$^7$; -CONR$^5$R$^6$; C$_4$-C$_{18}$cycloalkyl; C$_4$-C$_{18}$cycloalkyl which is substituted by E and/or interrupted by D; C$_4$-C$_{18}$cycloalkenyl; C$_4$-C$_{18}$cycloalkenyl which is substituted by E and/or interrupted by D; or

two substituents A$^1$, B$^1$, B$^2$ or B$^1$ and B$^2$ form a five to seven membered ring, which can be substituted,

m is an integer of 1 to 4; and W$^1$, W$^2$, Y$^1$, Y$^2$, X$^1$, X$^2$, V, W, X and Y are as defined above;

G is E; K; heteroaryl; heteroaryl which is substituted by C$_6$-C$_{18}$aryl; C$_6$-C$_{18}$aryl which is substituted by E and/or K;

K is C$_1$-C$_{18}$alkyl; C$_1$-C$_{18}$alkyl which is substituted by E and/or interrupted by D; C$_7$-C$_{18}$alkylaryl which is substituted by E and/or interrupted by D; C$_2$-C$_{18}$alkenyl; C$_2$-C$_{18}$alkenyl which is substituted by E and/or interrupted by D; C$_2$-C$_{18}$alkynyl; C$_2$-C$_{18}$alkynyl which is substituted by E and/or interrupted by D; C$_1$-C$_{18}$alkoxy, C$_1$-C$_{18}$alkoxy which is substituted by E and/or interrupted by D; C$_4$-C$_{18}$cycloalkyl; C$_4$-C$_{18}$cycloalkyl which is substituted by E and/or interrupted by D; C$_4$-C$_{18}$cycloalkenyl; or C$_4$-C$_{18}$cycloalkenyl which is substituted by E and/or interrupted by D;

L is E; K;C$_6$-C$_{18}$aryl; or C$_6$-C$_{18}$aryl which is substituted by G, E and/or K;

R$^4$ is C$_6$-C$_{18}$aryl; C$_6$-C$_{18}$aryl which is substituted by C$_1$-C$_{18}$alkyl, C$_1$-C$_{18}$alkoxy; C$_1$-C$_{18}$alkyl; or C$_1$-C$_{18}$alkyl which is interrupted by –O–;

R$^7$ is H; C$_6$-C$_{18}$aryl; C$_6$-C$_{18}$aryl which is substituted by C$_1$-C$_{18}$alkyl, C$_1$-C$_{18}$alkoxy; C$_1$-C$_{18}$alkyl; C$_1$-C$_{18}$alkyl which is interrupted by –O–;

R$^8$ is H; C$_6$-C$_{18}$aryl; C$_6$-C$_{18}$aryl which is substituted by C$_1$-C$_{18}$alkyl, C$_1$-C$_{18}$alkoxy; C$_1$-C$_{18}$alkyl; C$_1$-C$_{18}$alkyl which is interrupted by –O–.

or two substituents selected from V$^1$ to V$^5$, W$^1$ to W$^5$, X$^1$ to X$^5$, Y$^1$ to Y$^5$ which are in neighborhood to each other form a five to seven membered ring.

**19.** **(new):** An electroluminescent device according to claim 17, wherein when $R^5$ and $R^6$ together
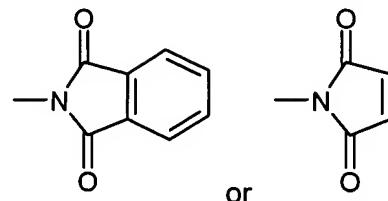
form a five or six membered ring the group is



or



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**20.** **(new):** An electroluminescent device according to claim 18, wherein when one of the substituents V, W, X, or Y is -Ar-Z, Ar is



,



, or



,
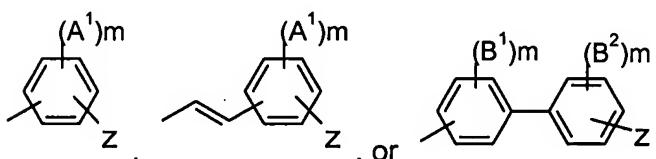
and

when one of the substituents $V^1$ to $V^5$, $W^1$ to $W^5$, $X^1$ to $X^5$, or $Y^1$ to $Y^5$ is –Ar-Z', Ar is



,



, or



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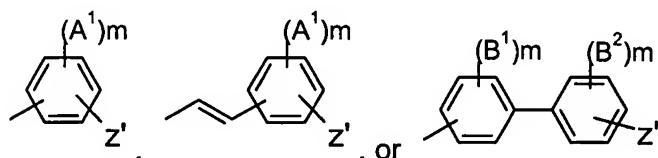
**21.** **(new):** An electroluminescent device according to claim 11, wherein $R^{110}$ is



or



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